

7 Year 3 Term 1 Week 7 Answers

7.1 Topic 1 — Roman Numerals

7.1.1 Change the Roman numerals into our numerals:



- | | |
|-------------------------|---------------------------|
| ① XLVI = <u>46</u> | ② CDLXXXIII = <u>483</u> |
| ③ CLXXI = <u>171</u> | ④ LXXXVIII = <u>88</u> |
| ⑤ CXLIII = <u>143</u> | ⑥ CCXV = <u>215</u> |
| ⑦ CCXXXV = <u>235</u> | ⑧ CDXXIII = <u>423</u> |
| ⑨ CDLXIX = <u>469</u> | ⑩ CDLXXXVIII = <u>488</u> |
| ⑪ CCCLI = <u>351</u> | ⑫ CDXXXVIII = <u>438</u> |
| ⑬ CXCIV = <u>195</u> | ⑭ CCXXV = <u>225</u> |
| ⑮ CXXII = <u>122</u> | ⑯ CDXCVIII = <u>498</u> |
| ⑰ CLVII = <u>157</u> | ⑱ LXX = <u>70</u> |
| ⑲ CDXLIX = <u>449</u> | ⑳ CCCLXIII = <u>363</u> |
| ㉑ CLIII = <u>153</u> | ㉒ CLXXXIV = <u>184</u> |
| ㉓ CCCXXXIX = <u>339</u> | ㉔ CDXIII = <u>413</u> |

Score:

7.1.2 Change the Hindu-Arabic numerals into Roman numerals:

① 370 = CCCLXX

② 108 = CVIII

③ 491 = CDXCI

④ 429 = CDXXIX

⑤ 463 = CDLXIII

⑥ 387 = CCCLXXXVII

⑦ 489 = CDLXXXIX

⑧ 395 = CCCXCV

⑨ 440 = CDXL

⑩ 325 = CCCXXV

⑪ 198 = CXCVIII

⑫ 156 = CLVI

⑬ 123 = CXXIII

⑭ 257 = CCLVII

⑮ 175 = CLXXV

⑯ 326 = CCCXXVI

⑰ 134 = CXXXIV

⑱ 403 = CDIII

⑲ 435 = CDXXXV

⑳ 56 = LVI

㉑ 186 = CLXXXVI

㉒ 132 = CXXXII

㉓ 204 = CCIV

㉔ 221 = CCXXI

Score: _____

7.2 Topic 2 — Puzzles (Across Downs)

7.2.1 Across down (Additions & Subtractions)

1

11	-	2	+	16	=	25
-		+		-		+
2	+	14	-	4	=	12
+		-		+		+
15	-	4	+	4	=	15
=		=		=		=
24	+	12	+	16	=	52

2

10	-	4	+	10	=	16
-		+		-		+
4	+	18	-	2	=	20
+		-		+		+
18	-	2	+	11	=	27
=		=		=		=
24	+	20	+	19	=	63



3

20	-	14	+	25	=	31
-		+		-		+
14	+	15	-	6	=	23
+		-		+		+
5	-	4	+	29	=	30
=		=		=		=
11	+	25	+	48	=	84

4

23	-	10	+	20	=	33
-		+		-		+
10	+	15	-	10	=	15
+		-		+		+
15	-	6	+	20	=	29
=		=		=		=
28	+	19	+	30	=	77

Score:

7.3 Topic 3 — Multiplication

$$\begin{array}{r} \textcircled{1} \quad 72 \\ \times 3 \\ \hline 216 \end{array}$$

$$\begin{array}{r} \textcircled{2} \quad 683 \\ \times 10 \\ \hline 6,830 \end{array}$$

$$\begin{array}{r} \textcircled{3} \quad 65 \\ \times 3 \\ \hline 195 \end{array}$$

$$\begin{array}{r} \textcircled{4} \quad 887 \\ \times 11 \\ \hline 9,757 \end{array}$$



$$\begin{array}{r} \textcircled{5} \quad 100 \\ \times 7 \\ \hline 700 \end{array}$$

$$\begin{array}{r} \textcircled{6} \quad 92 \\ \times 12 \\ \hline 1,104 \end{array}$$

$$\begin{array}{r} \textcircled{7} \quad 94 \\ \times 7 \\ \hline 658 \end{array}$$

$$\begin{array}{r} \textcircled{8} \quad 90 \\ \times 7 \\ \hline 630 \end{array}$$

$$\begin{array}{r} \textcircled{9} \quad 85 \\ \times 2 \\ \hline 170 \end{array}$$

$$\begin{array}{r} \textcircled{10} \quad 81 \\ \times 6 \\ \hline 486 \end{array}$$

$$\begin{array}{r} \textcircled{11} \quad 191 \\ \times 12 \\ \hline 2,292 \end{array}$$

$$\begin{array}{r} \textcircled{12} \quad 430 \\ \times 2 \\ \hline 860 \end{array}$$

$$\begin{array}{r} \textcircled{13} \quad 62 \\ \times 10 \\ \hline 620 \end{array}$$

$$\begin{array}{r} \textcircled{14} \quad 792 \\ \times 9 \\ \hline 7,128 \end{array}$$

$$\begin{array}{r} \textcircled{15} \quad 955 \\ \times 10 \\ \hline 9,550 \end{array}$$

$$\begin{array}{r} \textcircled{16} \quad 80 \\ \times 7 \\ \hline 560 \end{array}$$

Score: _____

7.4 Topic 4 — Divisions**7.4.1 Divisions without remainders**

$$\textcircled{1} \quad \begin{array}{r} 56 \\ 2 \overline{) 112} \end{array}$$

$$\textcircled{2} \quad \begin{array}{r} 23 \\ 7 \overline{) 161} \end{array}$$

$$\textcircled{3} \quad \begin{array}{r} 31 \\ 5 \overline{) 155} \end{array}$$

$$\textcircled{4} \quad \begin{array}{r} 16 \\ 6 \overline{) 96} \end{array}$$



$$\textcircled{5} \quad \begin{array}{r} 28 \\ 7 \overline{) 196} \end{array}$$

$$\textcircled{6} \quad \begin{array}{r} 7 \\ 3 \overline{) 21} \end{array}$$

$$\textcircled{7} \quad \begin{array}{r} 10 \\ 9 \overline{) 90} \end{array}$$

$$\textcircled{8} \quad \begin{array}{r} 7 \\ 6 \overline{) 42} \end{array}$$

$$\textcircled{9} \quad \begin{array}{r} 27 \\ 5 \overline{) 135} \end{array}$$

$$\textcircled{10} \quad \begin{array}{r} 14 \\ 2 \overline{) 28} \end{array}$$

$$\textcircled{11} \quad \begin{array}{r} 10 \\ 5 \overline{) 50} \end{array}$$

$$\textcircled{12} \quad \begin{array}{r} 12 \\ 4 \overline{) 48} \end{array}$$

$$\textcircled{13} \quad \begin{array}{r} 30 \\ 6 \overline{) 180} \end{array}$$

$$\textcircled{14} \quad \begin{array}{r} 32 \\ 3 \overline{) 96} \end{array}$$

$$\textcircled{15} \quad \begin{array}{r} 18 \\ 7 \overline{) 126} \end{array}$$

$$\textcircled{16} \quad \begin{array}{r} 5 \\ 7 \overline{) 35} \end{array}$$

Score:

7.4.2 Divisions with whole number remainders

$$\textcircled{1} \quad \begin{array}{r} 10 \text{ r}3 \\ 8 \overline{) 83} \end{array}$$

$$\textcircled{2} \quad \begin{array}{r} 23 \text{ r}1 \\ 8 \overline{) 185} \end{array}$$

$$\textcircled{3} \quad \begin{array}{r} 35 \text{ r}3 \\ 4 \overline{) 143} \end{array}$$

$$\textcircled{4} \quad \begin{array}{r} 23 \text{ r}6 \\ 8 \overline{) 190} \end{array}$$



$$\textcircled{5} \quad \begin{array}{r} 45 \text{ r}0 \\ 4 \overline{) 180} \end{array}$$

$$\textcircled{6} \quad \begin{array}{r} 32 \text{ r}1 \\ 3 \overline{) 97} \end{array}$$

$$\textcircled{7} \quad \begin{array}{r} 10 \text{ r}4 \\ 5 \overline{) 54} \end{array}$$

$$\textcircled{8} \quad \begin{array}{r} 80 \text{ r}0 \\ 2 \overline{) 160} \end{array}$$

$$\textcircled{9} \quad \begin{array}{r} 17 \text{ r}1 \\ 4 \overline{) 69} \end{array}$$

$$\textcircled{10} \quad \begin{array}{r} 5 \text{ r}1 \\ 6 \overline{) 31} \end{array}$$

$$\textcircled{11} \quad \begin{array}{r} 20 \text{ r}1 \\ 8 \overline{) 161} \end{array}$$

$$\textcircled{12} \quad \begin{array}{r} 32 \text{ r}1 \\ 4 \overline{) 129} \end{array}$$

$$\textcircled{13} \quad \begin{array}{r} 32 \text{ r}2 \\ 5 \overline{) 162} \end{array}$$

$$\textcircled{14} \quad \begin{array}{r} 45 \text{ r}1 \\ 2 \overline{) 91} \end{array}$$

$$\textcircled{15} \quad \begin{array}{r} 16 \text{ r}0 \\ 5 \overline{) 80} \end{array}$$

$$\textcircled{16} \quad \begin{array}{r} 33 \text{ r}2 \\ 4 \overline{) 134} \end{array}$$

Score:

7.5 Topic 5 — Number Patterns

- ① 52, 55, 58, 61, 64, 67, 70, 73, 76 (+ 3)
- ② 8, 15, 22, 29, 36, 43, 50, 57, 64 (+ 7)
- ③ 42, 51, 59, 66, 72, 77, 81, 84, 86 (+ 9 + 8 + 7 + 6...)
- ④ 62, 66, 70, 74, 78, 82, 86, 90, 94 (+ 4)
- ⑤ 4, 6, 8, 10, 12, 14, 16, 18, 20 (+ 2)
- ⑥ 5, 13, 21, 29, 37, 45, 53, 61, 69 (+ 8)
- ⑦ 86, 80, 74, 68, 62, 56, 50, 44, 38 (- 6)
- ⑧ 45, 50, 56, 63, 71, 80, 90, 101, 113 (+ 5 + 6 + 7 + 8...)
- ⑨ 42, 34, 37, 28, 31, 21, 24, 13, 16 (- 8 + 3 - 9 + 3 - 10 + 3...)
- ⑩ 69, 67, 65, 62, 60, 56, 54, 49, 47 (- 2 - 2 - 3 - 2 - 4 - 2...)
- ⑪ 14, 17, 20, 23, 26, 29, 32, 35, 38 (+ 3)
- ⑫ 71, 67, 65, 60, 58, 52, 50, 43, 41 (- 4 - 2 - 5 - 2 - 6 - 2...)

Score:

E 7.6.1 (1) 8 ; (2) 14 ; (3) 12 ; (4) 7 ; (5) 12 ; (6) 4 ; (7) 6 ; (8) 13 ; (9) 42 ; (10) 2 ; (11) 4 ; (12) 16 ;

E 7.7.1 (1) A ; (2) D ; (3) B ; (4) D ; (5) D ; (6) D ; (7) C ; (8) C ; (9) D ; (10) B ;

E 7.7.2 (1) 30 ; (2) 85 ; (3) 76 kg ; (4) \$2.55 ; (5) 60[30, 20, 15, 12, 10, 5, 2]

(5) $60 \div 1 = 60$, $60 \div 2 = 30$, $60 \div 3 = 20$, $60 \div 4 = 15$, $60 \div 5 = 12$, $60 \div 6 = 10$,

$60 \div 12 = 5$, $60 \div 15 = 4$, $60 \div 20 = 3$, $60 \div 30 = 2$, $60 \div 60 = 1$;

(6) a. 150, 152, 154 ; b. 140, 142 ; c. 102, 104 ; d. 510, 512, 514 ;

(7) George has 34 and Helen has 14;

Yimin Math Centre